Amendments to the Claims

Please amend the following claims, where additions are indicated by underlines and deletions indicated by strike-throughs.

- (Currently Amended) A device for depositing resist onto a substrate, said device comprising:
- a rotatable substrate support comprising a first surface onto which a layer of resist may be deposited;
- a resist dispenser fluidly adjacent said first surface for depositing said layer on said first surface;
- a control fluid supply configured to impart a gaseous control fluid onto a portion of said resist that has been deposited onto said first surface such that said gaseous control fluid emanating from said supply effects a local change in evaporation rate of said deposited layer of resist: and
- a controller configured to vary the placement of said <u>gaseous</u> control fluid onto said deposited layer of resist to effect a substantially uniform thickness layer thereof.
- (Original) A device according to claim 1, wherein said control fluid supply comprises a fluid dispensing nozzle that is moveable relative to said rotatable substrate support.
- (Original) A device according to claim 1, wherein said control fluid supply comprises a
 plurality of fluid dispensing nozzles.
- (Original) A device according to claim 3, wherein said plurality of fluid dispensing nozzles occupy a substantially fixed location relative to said rotatable substrate support.
- (Currently Amended) A device for depositing a solution on a substrate, said device comprising:

- a rotatable substrate support comprising a first surface onto which a layer of solution may be deposited;
- a solution dispenser fluidly adjacent said first surface for depositing said layer on said first surface;
- a fluid supply configured to impart a gaseous control fluid onto a portion of said solution that has been deposited onto said first surface such that said control fluid emanating from said fluid supply effects a local change in evaporation rate of said deposited layer of solution; and a controller comprising:
 - at least one detector configured to sense a parameter corresponding to said control fluid: and
 - a feedback apparatus responsive to said detector such that upon a deviation between said sensed parameter and a predetermined reference, said controller adjusts said fluid supply to reduce said deviation.
- 6. (Original) The device of claim 5, wherein said support is a wafer chuck.
- 7. (Original) The device of claim 6, wherein said fluid supply comprises an airflow supply.
- (Original) The device of claim 6, further comprising a humidity supply configured to humidify airspace adjacent said wafer chuck.
- (Original) The device of claim 6, further comprising a temperature supply configured to adjust temperature adjacent said wafer chuck.
- 10. (Previously Presented) The device of claim 7, wherein said airflow supply is configured to impart airflow onto a predetermined substrate location in a substantially vertically downward direction.

- 11. (Original) The device of claim 5, wherein said controller is configured to operate in a plurality of modes comprising a substantially automated mode and a manual mode, the second of which permits said controller to be additionally responsive to an operator input.
- 12. (Currently Amended) The device of claim 5, wherein a dispensing nozzle coupled to said fluid supply is moveable relative to said first surface such that said <u>gaseous</u> control fluid can be imparted onto different said portions of said deposited solution.
- 13. (Original) The device of claim 12, wherein said dispensing nozzle and said controller are cooperative such that said dispensing nozzle moves in response to said deviation.
- (Currently Amended) A device for depositing a solution on a substrate, said device comprising:
- a rotatable wafer chuck comprising a first surface onto which a layer of solution may be deposited;
- a solution dispenser fluidly adjacent said first surface for depositing said layer on said first surface;
- a housing disposed about said wafer chuck such that a substantially controllable environment is formed within said housing;
- a fluid supply in fluid communication with said substantially controllable environment, said fluid supply configured to impart a <u>gaseous</u> control fluid onto a portion of said solution that has been deposited onto said first surface such that said <u>gaseous</u> control fluid emanating from said fluid supply effects a local change in evaporation rate of said deposited layer of solution; and a controller comprising:
 - at least one detector configured to sense a parameter corresponding to said gaseous control fluid; and
 - a feedback apparatus responsive to said detector such that upon a deviation between said sensed parameter and a predetermined reference, said controller adjusts said fluid supply to reduce said deviation.

- (Original) The device of claim 14, further comprising at least one of an exhaust or drain in said substantially controllable environment.
- 16. (Currently Amended) A resist application device comprising:
- a rotatable wafer chuck comprising a first surface onto which a layer of resist may be deposited;
 - a dispenser configured to deposit said layer onto said first surface;
- a housing disposed about said wafer chuck such that a substantially controllable environment is formed within said housing;
- a fluid supply fluidly coupled to said substantially controllable environment, said fluid supply configured to impart a gaseous control fluid onto a portion of said layer that has been deposited onto said first surface such that said gaseous control fluid emanating from said fluid supply effects a local change in evaporation rate of said layer; and
- a controller configured to vary the placement of said <u>gaseous</u> control fluid onto said deposited layer of resist to effect a substantially uniform thickness layer thereof.
- 17. (Currently Amended) The device of claim 16, further comprising a detector configured to sense a parameter associated with said gaseous control fluid in said substantially controllable environment such that said controller is responsive to said detector such that upon a deviation between said sensed parameter and a corresponding predetermined reference level, said controller adjusts said supply to reduce said deviation.
- (Currently Amended) The device of claim 16, wherein said gaseous control fluid comprises air.
- (Currently Amended) The device of claim 16, wherein said <u>gaseous</u> control fluid is a substantially inert gas.
- (Original) A resist application device comprising:
 a rotatable wafer chuck;

- a dispenser configured to deposit said resist onto a generally upper surface of said wafer chuck:
- a housing disposed about said wafer chuck such that a substantially controllable environment is formed within said housing;

an airflow supply fluidly coupled to said resist deposited on said generally upper surface such that upon impingement of said airflow onto a desired part of said resist, said airflow produces a localized change in evaporation rate of said deposited resist relative to parts of said resist that are not substantially exposed to said impingement; and

a controller configured to vary the placement of said airflow onto said deposited layer of resist to effect a substantially uniform thickness layer thereof.

 (Withdrawn) A method of controlling the evaporation of solvent from a deposited resist layer, said method comprising:

depositing resist onto a rotating substrate; and

impinging a control fluid onto a portion of said deposited resist prior to curing of said resist such that said control fluid effects a local change in evaporation rate of said deposited resist.

22. (Withdrawn) The method of claim 21, further comprising: sensing an evaporation parameter corresponding to said control fluid; determining whether a deviation exists between said sensed parameter and a predetermined reference amount; and

if said deviation exists, adjusting said parameter to reduce said deviation.

- (Withdrawn) The method of claim 22, wherein said sensed parameter is a flow rate of said control fluid.
- 24. (Withdrawn) The method of claim 21, wherein said control fluid comprises air.

- (Withdrawn) The method of claim 21, including placing a housing around said substrate to form a substantially controllable environment.
- (Withdrawn) The method of claim 25, including controlling temperature within said substantially controllable environment.
- (Withdrawn) The method of claim 25, including controlling humidity within said substantially controllable environment.
- 28. (Withdrawn) The method of claim 22, wherein said adjusting comprises selectively increasing or decreasing said control fluid impingement.
- (Withdrawn) The method of claim 28, wherein said selective increasing or decreasing comprises moving a dispensing nozzle of said supply of control fluid relative to said substrate.
- (Withdrawn) A method of depositing a resist onto a substrate, said method comprising: configuring a device to comprise;
 - a rotatable substrate support comprising a first surface onto which a layer of said resist may be deposited;
 - a resist dispenser;
 - a fluid supply configured to impart a control fluid onto a portion of said resist layer such that said control fluid emanating from said fluid supply effects a local change in evaporation rate of said resist layer; and
 - a controller configured to vary the placement of said control fluid onto said deposited layer of resist to effect a substantially uniform thickness layer thereof;

placing said substrate on said support;

rotating said substrate;

depositing resist from said dispenser onto said substrate to form said resist layer thereon; and impinging said control fluid onto a portion of said resist layer to effect said local change in said evaporation rate therefrom.

31. (Withdrawn) The method of claim 30, further comprising:

providing at least one detector configured to sense a parameter corresponding to said fluid supply;

sensing said fluid flow parameter with said detector;

comparing said sensed parameter to a predetermined reference to determining whether a deviation exists between said sensed parameter and said predetermined reference; and if said deviation exists, adjusting said fluid supply to reduce said deviation.

- 32. (Withdrawn) The method of claim 31, further comprising providing a feedback apparatus responsive to said detector such that said feedback apparatus performs said adjusting said fluid supply.
- 33. (Withdrawn) The method of claim 31, wherein said substrate is a semiconductor wafer.
- 34. (Withdrawn) The method of claim 31, wherein said control fluid comprises air.
- 35. (Withdrawn) A method of forming a resist layer, said method comprising: configuring a device to comprise:
 - a rotatable substrate support;
 - a resist dispenser;
 - a fluid supply fluidly adjacent said support, said fluid supply configured to impart a control fluid onto a portion of said resist layer such that said control fluid emanating from said fluid supply effects a local change in evaporation rate of said resist layer; and
 - a controller comprising:
 - at least one detector configured to sense a fluid flow parameter corresponding to said fluid supply; and

a feedback apparatus responsive to said detector such that upon a deviation between said sensed parameter and a predetermined reference, said controller adjusts said fluid supply to reduce said deviation;

placing said substrate on said support;

rotating said support and substrate;

depositing resist from said dispenser onto said substrate;

sensing said control fluid parameter;

determining whether a deviation exists between said sensed parameter and said predetermined reference;

if said deviation exists, adjusting said supply to reduce said deviation; and curing at least a portion of said resist.

36. (Withdrawn) The method of claim 35, wherein said resist is cured by: subjecting said resist to a first heat treatment:

forming a pattern over said resist to define, upon exposure of said pattern to a source of radiation, a first resist portion and a second resist portion;

exposing said pattern and at least one of said resist portions to said source of radiation; removing one of said first or second resist portions; and

subjecting the portion of the remaining resist portion to a second heat treatment.

37. (Withdrawn) The method of claim 36, wherein said removing comprises removing the resist portion that was not exposed to said source of radiation during said exposing.